

Applied Physics B

Photo- physics and Laser Chemistry

**Volume B 48
1989**

Board of Editors

V. P. Chebotayev, Novosibirsk

T. W. Hänsch, Stanford, CA

E. P. Ippen, Cambridge

W. Kaiser, München

V. S. Letokhov, Moskau

H. K. V. Lotsch, Heidelberg

F. P. Schäfer, Göttingen

W. Schmidt, Aalen

Y. R. Shen, Berkeley, CA

T. Shimizu, Tokyo

H. Walther, Garching

J. Wolfrum, Heidelberg

Copyright

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher; and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special regulations for photocopies in the USA: Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. This fee is US \$ 0.20 per page, or a minimum of US \$ 1.00 if an article contains fewer than five pages. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0721-7269, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

Printers: Brühlsche Universitätsdruckerei, Giessen

Printed in Germany © by Springer-Verlag Berlin, Heidelberg 1989



Springer International

PHYSICS AND ASTRONOMY CLASSIFICATION SCHEME (PACS)

Shortened version for use in classifying papers for Applied Physics

General

- 02 Mathematical methods in physics
- 06 Measurement science and metrology
- 07 Specific instrumentation
 - 07.60 Optical instruments and techniques, detection of radiation
 - 07.65 Optical spectroscopy and spectrometers
 - 07.75 Mass spectrometers and mass-spectroscopy techniques
 - 07.80 Electron and ion microscopes and spectrometers; techniques
 - 07.85 X-ray and gamma-ray instruments and techniques

Atomic and molecular physics

- 32 Atomic spectra and interactions with photons
- 33 Molecular spectra and interactions of molecules with photons
- 34 Atomic and molecular collision processes and interactions
- 35 Experimentally derived information on atoms and molecules
- 36 Studies of special atoms and molecules (macro- and polymer molecules, clusters)

Fundamental areas of phenomenology (including applications)

- 41 Electricity and magnetism
- 42 Optics (*see also* 78)
 - 42.10 Propagation and transmission in homogeneous media
 - 42.20 Propagation and transmission in inhomogeneous media
 - 42.30 Optical information, image formation and analysis
 - 42.40 Holography
 - 42.50 Quantum optics
 - 42.55 Laser processes
 - C Pumping mechanisms
 - E Molecular gas lasers (CO_2 , CO, N_2O , formaldehyde)
 - G Excimer lasers
 - H Atomic, ionic, and other gas lasers
 - M Laser action in liquids and organic dyes
 - P Laser action in semiconductors
 - R Laser action in solid-state lasers
 - T Free-electron lasers
 - 42.60 Laser systems and laser-beam applications
 - B Design of specific laser systems
 - D Laser resonators, cavities, and amplifiers
 - E Laser beam deflection and focusing
 - F Laser beam modulation, mode locking, and tuning
 - 42.65 Nonlinear optics
 - 42.68 Atmospheric optics
 - 42.70 Optical materials
 - 42.80 Optical devices, techniques, and applications (including fiber and integrated optics)
- 43 Acoustics (*see also* 62)

Fluids, plasmas, and electric discharges

- 52 Physics of plasmas and electric discharges

Condensed matter: structure, mechanical and thermal properties

- 61 Structure of liquids and solids; crystallography (*for surface structure, see* 68.35; *for thin-film structure, see* 68.55)
 - 61.10 Determination of structures
 - 61.12 Neutron determination of structures
 - 61.14 Electron determination of structures
 - 61.16 Other determination of structures
 - 61.20 Liquid structures
 - 61.30 Liquid crystals
 - 61.40 Amorphous and polymer materials, glasses
 - 61.70 Defects in crystals
 - 61.80 Radiation damage and other irradiation effects
- 62 Mechanical and acoustical properties of condensed matter
- 63 Lattice dynamics and crystal statistics
- 64 Phase equilibria, and phase transitions
- 65 Thermal properties of condensed matter
- 66 Transport properties of condensed matter (nonelectronic)
 - 66.30 Diffusion and ionic conduction in solids

Surfaces and interfaces; thin films and whiskers

- 68.10 Fluid surfaces and fluid-fluid interfaces
- 68.15 Liquid thin films
- 68.35 Solid surfaces and solid-solid interfaces (including bicrystals)
- 68.45 Solid-fluid interfaces
- 68.55 Thin films: growth, structure, epitaxy and nonelectronic properties
- 68.65 Layer structures, intercalation compounds, and superlattices: growth, structure, and nonelectronic properties
- 68.70 Whiskers and dendrites: growth, structure, and nonelectronic properties

Condensed matter: electronic structure, electrical, magnetic, and optical properties

- 71 Electron states
- 72 Electronic transport
 - 72.15 Electronic phenomena in metals and alloys
 - 72.20 Conductivity phenomena in semiconductors and insulators
 - 72.40 Photoconduction and photovoltaic effects
 - 72.50 Acoustoelectric effects
 - 72.60 Mixed conductivity and conductivity transitions
 - 72.70 Noise processes and phenomena
- 73 Electronic structure and electrical properties of surfaces, interfaces, and thin films
 - 73.20 Electronic surface states
 - 73.25 Surface conductivity
 - 73.30 Surface double layers, Schottky barriers, and work functions
 - 73.40 Interfaces
 - 73.60 Electronic properties of thin films
- 74 Superconductivity
 - 74.70 Superconducting materials
- 75 Magnetic properties and materials
 - 75.70 Magnetic films and plates
- 76 Magnetic resonances and relaxation; Mössbauer effect
- 77 Dielectric properties and materials
 - 77.55 Dielectric thin films
- 78 Optical properties
 - 78.30 Infrared and Raman spectra
 - 78.65 Optical properties of thin films
 - 78.70 X-ray spectra and positron annihilation
- 79 Electron and ion emission by liquids and solids; impact phenomena
 - 79.20 Impact phenomena (including electron spectra and sputtering)
 - 79.40 Thermionic emission
 - 79.60 Photoemission and photoelectron spectra
 - 79.70 Field emission and field ionization

Cross-disciplinary physics

- 81 Materials science
 - 81.10 Methods of crystal growth and purification
 - 81.15 Methods of thin-film deposition
 - Z Laser deposition methods
 - 81.40 Treatment of materials and its effect on microstructure and properties
 - Z Laser machining
 - 81.60 Corrosion, oxidation, and surface treatments
 - Z Laser techniques, including ablation
- 82 Physical chemistry
 - 82.20 Chemical kinetics and chemical reactions
 - 82.30 Specific chemical reactions; reaction mechanisms
 - 82.40 Chemical kinetics and reactions: special regimes and techniques
 - Z Laser-induced reactions
 - 82.45 Electrochemistry and electrophoresis
 - 82.50 Photochemistry and radiation chemistry
 - 82.65 Surface processes
 - 82.70 Dispersive systems
 - 82.80 Chemical analysis and related physical methods of analysis
- 84 Electromagnetic technology
 - 84.60 Direct energy conversion and energy storage
- 85 Electrical and magnetic devices
 - 85.30 Semiconductor devices
 - 85.40 Integrated electronics
 - 85.60 Photoelectric and optoelectronic devices and systems
 - 85.80 Electrochemical, thermo-EM, and other devices
- 87 Biophysics (biological effects of radiation)

Contents of Applied Physics B 48

This listing presents the papers in alphabetical order of the first author. The author index that follows covers **Applied Physics A** and **B**, and is presented in tabular form. In the first column the names are listed in alphabetical order. The second column together with the third one contains the bibliographic data necessary to locate the paper. The issue is specified by the number separated from the volume number by a slash. The fourth column states the major PACS number so that the topic of the paper can be inferred by consulting the PACS listing on the left:

Photophysics and Laser Chemistry

- Alonso E.M., D'Angelo R.J., Quel E.J.:
Studies of vibrational relaxation in CDF₃ following intense laser excitation.
Appl. Phys. B 48/3, 249-252 (1989) PACS: 33.00 39.00 82.50
- Ankerhold G., Mitschke F., Frerking D., Ristau D., Mlynec J., Lange W.:
Hard coatings for optically bistable interference filters.
Appl. Phys. B 48/2, 101-104 (1989) PACS: 42.65P 68.55
- Arai S., Sugita K., Ma P., Ishikawa Y., Kaetsu H., Isomura S.:
First-stage enrichment in CO₂-laser-induced ¹³C separation by a two-stage IRMPD process: IRMPD of CHClF₂/Br₂ mixtures.
Appl. Phys. B 48/5, 427-435 (1989) PACS: 82.50 33.00
- Auyeung R.C.Y., Zielke D.M., Feldman B.J.:
Multiple harmonic conversion of pulsed CO₂ laser radiation in Tl₃AsSe₃.
Appl. Phys. B 48/4, 293-297 (1989) PACS: 42.65C 42.70 42.55
- Bagayev S.N., Baklanov A.E., Chebotayev V.P., Dychkov A.S.:
Superhigh resolution spectroscopy in methane with cold molecules.
Appl. Phys. B 48/1, 31-35 (1989) PACS: 07.65 33.00 42.72
- Bakhranov S.A., Berdikulov A.T., Kokharov A.M., Tikhonenko V.V.:
Self-induced polarization rotation of the laser beam in resonance media.
Appl. Phys. B 48/3, 243-244 (1989) PACS: 33.00 39.00 82.50
- Balykin V.I., Letokhov V.S.:
Atomic cavity with light-induced mirrors.
Appl. Phys. B 48/6, 517-523 (1989) PACS: 42.65K
- Bava E., Godone A., Novero C.:
Cavity phase-shift error evaluation in a magnesium atomic beam frequency standard.
Appl. Phys. B 48/6, 495-505 (1989) PACS: 32.80
- Bengtsson P.-E., Aldén M.:
Application of a pulsed laser for soot measurements in premixed flames.
Appl. Phys. B 48/2, 155-164 (1989) PACS: 78.35 82.40
- Bento A.C., Aguiar M.M.F., Vargas H., Silva M.D. da, Bandeira I.N., Miranda L.C.M.:
Open photoacoustic cell x-ray detection.
High-sensitivity transient spectroscopy using tunable diode lasers.
Appl. Phys. B 48/1, 25-29 (1989) PACS: 42.60K 35.80
- Hebling J., Klebniczki J., Heszler P., Bor Zs., Rácz B.:
Travelling-wave amplified spontaneous emission excited in a prismatic geometry.
Appl. Phys. B 48/5, 401-403 (1989) PACS: 42.55M
- Highland R., Dunkle E., Hager G.:
Magnetic Q-switching of a photolytic iodine laser.
Appl. Phys. B 48/4, 357-364 (1989) PACS: 42.65
- Ioli N., Moretti A., Pereira D., Strumia F., Garelli G.:
A new efficient far-infrared optically pumped laser gas: CH₃¹⁸⁰H.
Appl. Phys. B 48/4, 299-304 (1989) PACS: 42.55
- Ioli N., Moretti A., Strumia F.:
High efficiency CW far infrared lasers at 119 micrometer and 127 micrometer.
Appl. Phys. B 48/4, 305-309 (1989) PACS: 42.55
- Ionov S.I., Kobakhidze A.A.:
A differential technique to measure small product yield increments in a time-of-flight mass spectrometer for investigating IR-spectra of highly excited polyatomics.
Appl. Phys. B 48/6, 507-511 (1989) PACS: 42.80 33.00
- Ishihara T., Lin S.-C.:
Theoretical modeling of microwave-pumped high-pressure gas lasers.
Appl. Phys. B 48/4, 315-326 (1989) PACS: 34.80 42.55 52.80
- Ishizaka S.:
Laser emission from the organic free radical 9-julolidylthiyl in solution.
Appl. Phys. B 48/2, 111-113 (1989) PACS: 33.00 42.55
- Jennings D.A.:
Coherent tunable far infrared radiation.
Appl. Phys. B 48/4, 311-313 (1989) PACS: 42.65 42.55
- Johnson D.E., Humphreys Jr. R.H., Keating P., Hager G.D.:
A frequency doubled chemical oxygen iodine laser.
Appl. Phys. B 48/4, 339-342 (1989) PACS: 42.55k 42.60 42.65
- Johnson D.E., Highland R.G., Dunkle E.A.:
A photolytically Q-switched photolytic iodine laser.
Appl. Phys. B 48/5, 445-448 (1989) PACS: 42.60
- Johnst K., Johansen H.:
Resonant two-step photoionization of molecules: Effects of Pulse sequence, pulse duration and delay time of two lasers on ionization probability and selectivity.
Appl. Phys. B 48/6, 479-484 (1989) PACS: 33.80E
- Kielczynski P., Pajewski W.:
Influence of a layered polarization of piezoelectric ceramics on shear-horizontal surface-wave propagation.
Appl. Phys. B 48/5, 383-388 (1989) PACS: 62.30 68.25 68.60
- Kozlov D.N., Smirnov V.V., Volkov S.Yu.:
Study of processes of translational, rotational, and vibrational relaxation based on CARS spectra line shapes.
Appl. Phys. B 48/3, 273-283 (1989) PACS: 42.65 34.00
- Kudryavtsev Yu.A., Petrunin V.V., Sitkin V.M., Letokhov V.S.:
Laser photoionization detection of the rare isotope ³He.
Appl. Phys. B 48/1, 93-96 (1989) PACS: 32.80F 31.60 07.75
- Letardi T., Lazzaro P., DiGiordano G., Zheng C.E.:
Appl. Phys. B 48/3, 269-272 (1989) PACS: 78.90
- Brand U., Mensing F., Helmcke J.:
Polarization properties and frequency stabilization of an internal mirror He-Ne laser emitting at 543.5 nm wavelength.
Appl. Phys. B 48/4, 343-350 (1989) PACS: 42.50 42.55 42.60
- Brüggemann R., Petri M., Fischer H., Mauer D., Reinert D., Urban W.:
Computer controlled diode laser spectrometer with a helium evaporation cryostat and spectroscopy of the μ_3 vibration of NCO.
Appl. Phys. B 48/2, 105-110 (1989) PACS: 42.60 33.20
- Carusotto S., Polacco E., Iacopini E., Stefanini G., Zavattini E., Scuri F.:
The ellipticity introduced by interferential mirrors on a linearly polarized light beam orthogonally reflected.
Appl. Phys. B 48/3, 231-234 (1989) PACS: 42.70 42.80
- Chen Yijiang:
Theoretical analysis of acousto-optic frequency shifter by dual mode fiber.
Appl. Phys. B 48/2, 131-137 (1989) PACS: 42.80M 43.20
- Chen Zhihao, Qu Yan, Yao Huihai:
Birefringence and polarization mode dispersion in graded-core stress-applied polarization-maintaining fibers.
Appl. Phys. B 48/3, 225-229 (1989) PACS: 42.80 42.20
- Cunin B., Geoffroy B., Heisel F., Lépine T., Miehé J.A.:
Spectral density analysis of noisy repetitive pulses. Models for continuously operating mode-locked lasers.
Appl. Phys. B 48/1, 41-49 (1989) PACS: 02.50 42.60 42.80
- Czarnetzki U., Döbele H.F., Rückle B.:
Stimulated IR- and vacuum-UV emission following two-photon-excitation of molecular hydrogen using an ArF laser.
Appl. Phys. B 48/1, 37-40 (1989) PACS: 33.80K 42.65
- Dyer P.E., Oldershaw G.A., Sidhu J.:
CO₂ laser ablative etching of polyethylene terephthalate.
Appl. Phys. B 48/6, 489-493 (1989) PACS: 33.80K 42.65
- Facin J.A., Pereira D., Vasconcellos E.C.C., Scalabrin A., Ferrari C.A.:
New FIR laser lines from CHD₂OH optically pumped by CW CO₂ laser.
Appl. Phys. B 48/3, 245-248 (1989) PACS: 42.55
- Gerasimchuk A., Kornilov S., Protchenko E., Tymper S.:
Frequency tuned carbon monoxide waveguide laser with RF pumping.
Appl. Phys. B 48/6, 513-516 (1989) PACS: 42.55E
- Grosse P., Wynands R.:
Simulation of photoacoustic IR spectra of multilayer structures.
Appl. Phys. B 48/1, 59-65 (1989) PACS: 07.65G 44.30 78.30

- Guizard S., Chapoulard D., Horani M., Gaucy D.:
Detection of NO traces using resonantly enhanced multiphoton ionization: A method for monitoring atmospheric pollutants.
Appl. Phys. B 48/6, 471-477 (1989) PACS: 33.80R 42.68
- Güthner P., Fischer U.Ch., Dransfeld K.:
Scanning near-field acoustic microscopy.
Appl. Phys. B 48/1, 89-92 (1989) PACS: 61.16 43.35
- Hammer Th., Böttcher W.:
Spectroscopic investigation of the ionization kinetics in XeCl laser discharges by Xe density measurements.
Appl. Phys. B 48/1, 73-84 (1989) PACS: 42.55G 52.65 52.70
- Hayward J.E., Cassidy D.T., Reid J.:
Large area X-ray preionizer for electric discharge lasers.
Appl. Phys. B 48/1, 55-58 (1989) PACS: 52.80V 52.25
- Leuthard W., Kneubühl F.K., Schötzau H.J.:
CO₂-laser gas discharges in narrow gaps.
Appl. Phys. B 48/1, 1-20 (1989) PACS: 42.55E 42.60 52.00
- Lo D.:
The effect of preionization electron number density on avalanche completion time.
Appl. Phys. B 48/5, 405-410 (1989) PACS: 42.55G 52.80
- Löhmansröben H.G., Langhals H.:
Laser performance of perylenebis (dicarboximide) dyes with long secondary alkyl chains.
Appl. Phys. B 48/6, 449-452 (1989) PACS: 42.55M 82.50 33.20
- Lu M.-H., Chen W.-M., Pan C.-L.:
Atomic absorption spectra induced by NaRb in sodium-rubidium vapour.
Appl. Phys. B 48/5, 365-369 (1989) PACS: 34.90
- Manohar K.G., Bajaj P.N., Suri B.M., Talukdar R., Dasgupta K., Chakraborti P.K., Rao P.R.K.:
Observation of autoionization resonances in uranium by stepwise laser photoionization.
Appl. Phys. B 48/6, 525-530 (1989) PACS: 31.60 32.30 32.80
- Meier R., Kneubühl F.K., Schötzau H.J.:
Mass-spectroscopic study of the influence of nozzle material on high-pressure SF₆-arcs.
Appl. Phys. B 48/3, 187-211 (1989) PACS: 52.00
- Meis C., Jardino M., Gely B., Desaintfusen M.:
Relativistic Doppler effect in ¹⁹⁹Hg⁺ stored ions atomic frequency standard.
Appl. Phys. B 48/1, 67-72 (1989) PACS: 32.00 35.00
- Miklos A., Lörincz A.:
Windowless resonant acoustic chamber for laser-photoacoustic applications.
Appl. Phys. B 48/3, 213-218 (1989) PACS: 07.65 43.20 43.85
- Miklos A., Lörincz A.:
Determination of thermal transport properties of thin films from pulsed thermoreflectance measurements in the picosecond regime.
Appl. Phys. B 48/3, 261-267 (1989) PACS: 65.00 68.55 78.20
- Mitschke F., Ankerhold G., Lange W.:
Analysis of optical bistability through rapid water desorption from hard coatings.
Appl. Phys. B 48/6, 467-470 (1989) PACS: 42.65P 68.55
- Morinaga A., Riehle F., Ishikawa J., Helmcke J.:
A Ca optical frequency standard: Frequency stabilization by means of nonlinear Ramsey resonances.
Appl. Phys. B 48/2, 165-171 (1989) PACS: 32.00 42.50 42.55
- Mutin P., Boquillon J.P.:
Very-narrow-bandwidth tunable infrared difference frequency generation with injection-locked dye lasers.
Appl. Phys. B 48/5, 411-416 (1989) PACS: 33.20F 42.65 42.55
- Nayak A.K., Sarkar S.K., Karve R.S., Parthasarathy V., Rama Rao K.V.S., Mittal J.P., Krishnamachari S.L., Venkitachalam T.V.:
Infrared laser multiple photon dissociation of thiophene in gas phase.
Appl. Phys. B 48/5, 437-443 (1989) PACS: 82.50 33.00
- Ogawa T.:
Statistical properties of the laser emission in a low-Q cavity.
Appl. Phys. B 48/4, 327-338 (1989) PACS: 42.50 05.40 02.50
- Oka K., Sato H.:
Pyroelectric detection of a CO₂ laser beam using organic co-polymers.
Appl. Phys. B 48/1, 85-88 (1989) PACS: 42.80
- Osborne M.R., Schroeder W.A., Damzen M.J., Hutchinson M.H.R.:
Low-divergence operation of a long-pulse excimer laser using a SBS phase-conjugate cavity.
Appl. Phys. B 48/4, 351-356 (1989) PACS: 42.55G 42.60
- Piglmayer K., Bäuerle D.:
On the reaction kinetics in laser-induced photochemical gas-phase processing.
Appl. Phys. B 48/6, 453-462 (1989) PACS: 82.50 82.65
- Pollock C.R., Pinto J.F., Georgiou E.:
Recent progress in color center lasers.
Appl. Phys. B 48/4, 287-292 (1989) PACS: 42.60L 42.60 42.55
- Qiu P., Penzkofer A.:
Intense ultrashort pulse generation in a two-photon pumped generator-amplifier system.
Appl. Phys. B 48/2, 115-124 (1989) PACS: 42.55M 42.65
- Quapp W.:
An explanation of the direction of the relaxation in the HCN gas microwave laser, and a new assignment of some further laser lines along the path of internal vibrational energy redistribution.
Appl. Phys. B 48/3, 257-260 (1989) PACS: 82.20R 42.55 31.10
- Rakowsky S., Zimmermann D., Ernst W.E.:
Accurate determination of wavenumbers for iodine molecular lines in the red spectral region.
Appl. Phys. B 48/6, 463-466 (1989) PACS: 33.20K 42.72
- Reuter R., Franke H.:
An integrated organic photoconductive detector for optoelectronics.
Appl. Phys. B 48/3, 219-224 (1989) PACS: 42.80 42.82 72.40
- Ringhofer K.H., Solymar L.:
Three-wave and four-wave forward mixing in photorefractive materials.
Appl. Phys. B 48/5, 395-400 (1989) PACS: 42.50 42.65
- Ritonga J., Ushizaka T., Asakura T.:
Two-dimensional measurements of velocity using two rotating gratings.
Appl. Phys. B 48/5, 371-377 (1989) PACS: 07.60 42.80
- Ryan J.C., Lawandy N.M.:
Multiple relaxation and inhomogeneous broadening in resonance enhanced Raman scattering: Application to tunable infrared generation.
Appl. Phys. B 48/2, 173-182 (1989) PACS: 42.55H
- Scott R.Q., Usa M., Inaba H.:
Ultraweak emission imagery of mitosing soybeans.
Appl. Phys. B 48/2, 183-185 (1989) PACS: 87.10
- Siegner U., Noll G., Göbel E.O.:
Synchronized picosecond pulse generation with a synchronously pumped dye laser and a compressed Nd:YAG laser for non-degenerate transient grating experiments.
Appl. Phys. B 48/1, 21-23 (1989) PACS: 42.65R 42.60 78.47
- Simon P.:
Time-resolved ablation-site photography of XeCl-laser irradiated polyimide.
Appl. Phys. B 48/3, 253-256 (1989) PACS: 42.60 81.60 82.65
- Solka H., Zimmermann W., Reinert D., Stahn A., Dax A., Urban W.:
A simple model for the velocity modulation detection technique of molecular ions.
Appl. Phys. B 48/3, 235-242 (1989) PACS: 35.80 33.70
- Stamm U., Weidner F.:
Pulse formation in synchronously pumped infrared dye lasers.
Appl. Phys. B 48/2, 149-153 (1989) PACS: 42.55M 42.60 42.65
- Taira Y., Amano S., Takuma H.:
System for precise measurement in inverse Raman spectroscopy.
Appl. Phys. B 48/5, 389-394 (1989) PACS: 07.65 33.20 35.80
- Trtica M.S., Ribnikar S.V.:
Spectroscopic study of a TEA CO₂ laser of the CO₂/X, X = H₂, N₂/H₂ type.
Appl. Phys. B 48/5, 379-382 (1989) PACS: 42.55D
- Uehara K., Kikuchi H.:
Generation of nearly diffraction-free laser beams.
Appl. Phys. B 48/2, 125-129 (1989) PACS: 42.60H 42.60

- Vodopyanov K.L., Kulevskii L.A., Toth Cs., Farkas Gy., Horváth Z.Gy.:
Laser induced electron emission from gold surface irradiated by picosecond pulses at $\lambda = 2.8$ micrometer.
Appl. Phys. B **48**/6, 485-488 (1989) PACS: 32.80K 79.20 79.60
- Watanabe M., Endoh A., Sarukura N., Watanabe S.:
Subpicosecond UV pulse generation for a multiterawatt KrF laser.
Appl. Phys. B **48**/5, 417-420 (1989) PACS: 42.55H 42.55 42.60
- Yih T.S., Wu H.H., Wang H.S., Chen Y.L.:
Observation of 280 nm and 298 nm ultraviolet emissions in sodium vapor.
Appl. Phys. B **48**/5, 421-426 (1989) PACS: 42.60 42.65
- Yu J., Desaintfuscien M., Plumelle F.:
Ion density limitation in a penning trap due to the combined effect of asymmetry and space charge.
Appl. Phys. B **48**/1, 51-55 (1989) PACS: 41.70 32.80 52.55
- Zhang Y., Beuermann Th., Stuke M.:
UV laser photofragment GaCH_3 detected by far UV laser mass spectrometry.
Appl. Phys. B **48**/1, 97-100 (1989) PACS: 81.15H 82.50
- Zysset B., Fujimoto J.G., Deutsch T.F.:
Time-resolved measurements of picosecond optical breakdown.
Appl. Phys. B **48**/2, 139-147 (1989) PACS: 87.60 52.50 42.65

Name	First Name	Applied Physics	PACS	Name	First Name	Applied Physics	PACS
Abdelmohsen N.	Abdelmohsen N.	A 48/3, 251-253 (1989)	72.20	Chantre A.	Chantre A.	A 48/1, 3-9 (1989)	61.70
Abdel Naby M.	Akkad F.El	A 48/5, 493-495 (1989)	73.60F	Chaplev N.I.	Jovicevic S.	A 48/3, 283-287 (1989)	61.80B
Abe Y.	Abe Y.	A 48/2, 177-180 (1989)	72.20H	Chaplev N.I.	Ursu I.	A 48/5, 451-456 (1989)	61.80
Abou El-Ela A.H	Abdelmohsen N.	A 48/3, 251-253 (1989)	72.20	Chapoulard D.	Guizard S.	B 48/6, 471-477 (1989)	33.80R
Adegboyega G.A.	Adegboyega G.A.	A 48/4, 391-395 (1989)	73.30	Chattopadhyay N.	Ghatak K.P.	A 48/4, 365-371 (1989)	73.20
Aguiar M.M.F.	Bento A.C.	B 48/3, 269-272 (1989)	78.90	Chebotaev V.P.	Bagayev S.N.	B 48/1, 31-35 (1989)	07.65
Ahn K.-Y.	Gösele U.	A 48/3, 219-228 (1989)	61.70	Chen D.	Pang D.	A 48/4, 355-357 (1989)	74.70V
Akkad F.El	Akkad F.El	A 48/5, 493-495 (1989)	73.60F	Chen G.L.	Chen J.M.	A 48/3, 277-281 (1989)	74.70
Aktas G.	Aktas G.	A 48/3, 237-246 (1989)	72.40	Chen J.M.	Chen J.M.	A 48/3, 277-281 (1989)	74.70
Aktas G.	Aktulga E.	A 48/6, 517-520 (1989)	72.40	Chen W.-M.	Lu M.-H.	B 48/5, 365-369 (1989)	34.90
Aktulga E.	Aktulga E.	A 48/6, 517-520 (1989)	72.40	Chen Y.L.	Yih T.S.	B 48/5, 421-426 (1989)	42.60
Aktulga E.	Aktas G.	A 48/3, 237-240 (1989)	72.40	Chen Yijiang	Chen Yijiang	B 48/2, 131-137 (1989)	42.80M
Al-Rafaie S.N.	Al-Rafaie S.N.	A 48/6, 575-582 (1989)	73.40R	Chen Z.-H.	Xie Y.-L.	A 48/5, 497-500 (1989)	07.60
Aldén M.	Bengtsson P.-E.	B 48/2, 155-164 (1989)	78.35	Chen Zhihao	Chen Zhihao	B 48/3, 225-229 (1989)	42.80
Alonso E.M.	Alonso E.M.	B 48/3, 249-252 (1989)	33.00	Chevy A.	Segura A.	A 48/5, 445-450 (1989)	72.10
Altorn R.I.	Altorn R.I.	A 48/3, 273-276 (1989)	07.20	Chiussi S.	Dietrich T.R.	A 48/5, 405-414 (1989)	81.15G
Amano S.	Taira Y.	B 48/5, 389-394 (1989)	07.65	Cho H.Y.	Cho H.Y.	A 48/4, 359-363 (1989)	61.70A
Amelinckx S.	Zandbergen H.W.	A 48/4, 305-314 (1989)	74.70	Choh S.H.	Cho H.Y.	A 48/4, 359-363 (1989)	61.70A
Andreshak J.C.	Altorn R.I.	A 48/3, 273-276 (1989)	07.20	Choudhury S.C.	Chakrabarti P.	A 48/4, 331-334 (1989)	72.70
Ankerhold G.	Ankerhold G.	B 48/2, 101-104 (1989)	42.65P	Christiansen J.	Schölch H.P.	A 48/4, 397-400 (1989)	74.70
Ankerhold G.	Mitschke F.	B 48/6, 467-470 (1989)	42.65P	Chuang J.-B.	Hwu J.-G.	A 48/4, 377-383 (1989)	73.00
Aoki K.	Aoki K.	A 48/2, 111-125 (1989)	72.20H	Cil C.Z.	Aktas G.	A 48/3, 237-240 (1989)	72.40
Aoki K.	Aoki K.	A 48/2, 161-169 (1989)	72.20H	Clauß W.	Peinke J.	A 48/2, 155-160 (1989)	05.45
Arai S.	Arai S.	B 48/5, 427-435 (1989)	82.50	Comes F.J.	Dietrich T.R.	A 48/5, 405-414 (1989)	81.15G
Asakura T.	Ritonga J.	B 48/5, 371-377 (1989)	07.60	Corbel C.	Corbel C.	A 48/4, 335-341 (1989)	74.70
Atrens A.	Jin S.	A 48/4, 385-389 (1989)	68.45	Cunin B.	Cunin B.	B 48/1, 41-49 (1989)	02.50
Auyeung R.C.Y.	Auyeung R.C.Y.	B 48/4, 293-297 (1989)	42.65C	Czarnetzki U.	Czarnetzki U.	B 48/1, 37-40 (1989)	33.80K
				Czekaj D.	Czekaj D.	A 48/6, 573-574 (1989)	79.20
Bagayev S.N.	Bagayev S.N.	B 48/1, 31-35 (1989)	07.65	D'Angelo R.J.	Alonso E.M.	B 48/3, 249-252 (1989)	33.00
Bajaj P.N.	Manohar K.G.	B 48/6, 525-530 (1989)	31.60	D'Anna E.	D'Anna E.	A 48/6, 503-507 (1989)	68.55
Bakhrarov S.A.	Bakhrarov S.A.	B 48/3, 243-244 (1989)	33.00	Dahlem J.	Engelmann H.	A 48/3, 211-217 (1989)	64.75
Bakker K.	Li J.N.	A 48/2, 193-195 (1989)	74.70	Damzen M.J.	Osborne M.R.	B 48/4, 351-356 (1989)	42.55G
Baklanov A.E.	Bagayev S.N.	B 48/1, 31-35 (1989)	07.65	Dasgupta K.	Manohar K.G.	B 48/6, 525-530 (1989)	31.60
Baliga S.	Baliga S.	A 48/5, 419-422 (1989)	74.70	Dauwe C.	Mbungu-Tsumbu N.	A 48/4, 343-346 (1989)	78.70
Balykin V.I.	Balykin V.I.	B 48/6, 517-523 (1989)	42.65K	Dax A.	Solka H.	B 48/3, 235-242 (1989)	35.80
Bandeira I.N.	Bento A.C.	B 48/3, 269-272 (1989)	78.90	Deicher M.	Wichert Th.	A 48/1, 59-85 (1989)	61.70
Banerjee J.P.	Banerjee J.P.	A 48/5, 437-443 (1989)	85.30	Desaintfuscien M.	Yu J.	B 48/1, 51-55 (1989)	41.70
Bäuerle D.	Bäuerle D.	A 48/6, 527-541 (1989)	74.70	Desaintfuscien M.	Meis C.	B 48/1, 67-72 (1989)	32.00
Bäuerle D.	Piglmayer K.	B 48/6, 453-462 (1989)	82.50	Deutsch T.F.	Zysset B.	B 48/2, 139-147 (1989)	87.60
Baumvol I.J.R.	Teixeira S.R.	A 48/5, 481-488 (1989)	68.55N	DeWames R.E.	Marshall D.B.	A 48/1, 87-91 (1989)	74.60G
Bausser E.	Konuma M.	A 48/5, 465-469 (1989)	81.60	Dézi I.	Engelmann H.	A 48/3, 211-217 (1989)	64.75
Bava E.	Bava E.	B 48/6, 495-505 (1989)	32.80	Díaz I.	Mbungu-Tsumbu N.	A 48/4, 343-346 (1989)	78.70
Bengtsson P.-E.	Bengtsson P.-E.	B 48/2, 155-164 (1989)	78.35	Díaz I.	Dietrich T.R.	A 48/5, 405-414 (1989)	81.15G
Benker W.	Schölch H.P.	A 48/4, 397-400 (1989)	74.70	Döbele H.F.	Czarnetzki U.	B 48/1, 37-40 (1989)	33.80K
Bento A.C.	Bento A.C.	B 48/3, 269-272 (1989)	78.90	Dobrovolskis Z.	Dobrovolskis Z.	A 48/3, 245-249 (1989)	72.70
Berdikulov A.T.	Bakhrarov S.A.	B 48/3, 243-244 (1989)	33.00	Doka O.	Doka O.	A 48/5, 415-417 (1989)	73.00
Bergholz W.	Pensl G.	A 48/1, 49-57 (1989)	71.55F	Dransfeld K.	Güthner P.	B 48/1, 89-92 (1989)	61.16
Bernède P.	Corbel C.	A 48/4, 335-341 (1989)	74.70	Dunkle E.	Highland R.	B 48/4, 357-364 (1989)	42.65
Betz J.	Langfeller H.	A 48/5, 501-502 (1989)	73.60K	Dunkle E.A.	Johnson D.E.	B 48/5, 445-448 (1989)	42.60
Beuermann Th.	Zhang Y.	B 48/1, 97-100 (1989)	81.15H	Du Y.C.	Sun D.C.	A 48/6, 567-571 (1989)	52.80
Boquillon J.P.	Mutin P.	B 48/5, 411-416 (1989)	33.20F	Dychkov A.S.	Bagayev S.N.	B 48/1, 31-35 (1989)	07.65
Bor Za.	Hebling J.	B 48/5, 401-403 (1989)	42.55M	Dyer P.E.	Dyer P.E.	B 48/6, 489-493 (1989)	82.50
Böttcher W.	Hammer Th.	B 48/1, 73-84 (1989)	42.55G				
Brandl A.	Spangler J.	A 48/2, 143-147 (1989)	05.40	Eitle J.	Ugolini D.	A 48/6, 549-558 (1989)	79.60
Brand U.	Brand U.	B 48/4, 343-350 (1989)	42.50	Eitle J.	Wittmer M.	A 48/6, 559-566 (1989)	73.40
Brass S.G.	Brass S.G.	A 48/4, 401-404 (1989)	74.70	Elsayed S.N.	Abdelmohsen N.	A 48/3, 251-253 (1989)	72.20
Brenner S.S.	Kellogg G.L.	A 48/3, 197-201 (1989)	74.70V	Endoh A.	Watanabe M.	B 48/5, 417-420 (1989)	42.55H
Briones F.	Pérez Méndez M.	A 48/5, 471-473 (1989)	78.50G	Engelmann H.	Engelmann H.	A 48/3, 211-217 (1989)	64.75
Brüggemann R.	Brüggemann R.	B 48/2, 105-110 (1989)	42.60	Ernst W.E.	Rakowsky S.	B 48/6, 463-466 (1989)	33.20K
Brunner A.J.	Brunner A.J.	A 48/3, 229-232 (1989)	61.70N	Etspüler A.	Etspüler A.	A 48/4, 373-375 (1989)	81.15G
Bues K.	Campbell E.E.B.	A 48/6, 543-547 (1989)	79.20D				
Bürger N.	Irion E.	A 48/1, 25-30 (1989)	71.55H	Fabbri R.	Solmi S.	A 48/3, 255-260 (1989)	61.70
Cabanski W.	Cabanski W.	A 48/3, 203-210 (1989)	71.20	Facin J.A.	Facin J.A.	B 48/3, 245-248 (1989)	42.55
Campbell E.E.B.	Campbell E.E.B.	A 48/6, 543-547 (1989)	79.20D	Farkas Gy.	Vodopyanov K.L.	A 48/6, 485-488 (1989)	32.80K
Cantareiro A.	Segura A.	A 48/5, 445-450 (1989)	72.10	Fayos J.	Pérez Méndez M.	A 48/5, 471-473 (1989)	78.50G
Canter R.	Solmi S.	A 48/3, 255-260 (1989)	61.70	Feldman B.J.	Auyeung R.C.Y.	B 48/4, 293-297 (1989)	42.65C
Carusotto S.	Carusotto S.	B 48/3, 231-234 (1989)	42.70	Feldmann J.	Weller A.	A 48/6, 509-515 (1989)	73.20D
Casanovas A.	Segura A.	A 48/5, 445-450 (1989)	72.10	Ferrari C.A.	Facin J.A.	B 48/3, 245-248 (1989)	42.55
Cassidy D.T.	Hayward J.E.	B 48/1, 25-29 (1989)	42.60K	Fickenscher P.	Schölch H.P.	A 48/4, 397-400 (1989)	74.70
Castaldini A.	Castaldini A.	A 48/5, 431-436 (1989)	72.20J	Fischer H.	Brüggemann R.	B 48/2, 105-110 (1989)	42.60
Castaldini A.	Adegboyega G.A.	A 48/4, 391-395 (1989)	73.30	Fischer U.Ch.	Güthner P.	B 48/1, 89-92 (1989)	61.16
Cavallini A.	Adegboyega G.A.	A 48/4, 391-395 (1989)	73.30	Franker R.	Reuter R.	B 48/3, 219-224 (1989)	42.80
Cavallini A.	Castaldini A.	A 48/5, 431-436 (1989)	72.20J	Frank K.	Schölch H.P.	A 48/4, 397-400 (1989)	74.70
Cembali F.	Solmi S.	A 48/3, 255-260 (1989)	61.70	Fransé J.J.M.	Li J.N.	A 48/2, 193-195 (1989)	74.70
Chakrabarti P.	Chakrabarti P.	A 48/4, 331-334 (1989)	72.70	Freire F.L. Jr.	Teixeira S.R.	A 48/5, 481-488 (1989)	68.55N
Chakrabarti P.K.	Manohar K.G.	B 48/6, 525-530 (1989)	31.60	Frerking D.	Ankerhold G.	B 48/2, 101-104 (1989)	42.65P

Name	First Name	Applied Physics	PACS	Name	First Name	Applied Physics	PACS
Fujii K.	Fujii K.	A 48/2, 189-191 (1989)	72.20H	Ishikawa Y.	Arai S.	B 48/5, 427-435 (1989)	82.50
Fujimoto J.G.	Zysset B.	B 48/2, 139-147 (1989)	87.60	Ishizaka S.	Ishizaka S.	B 48/2, 111-113 (1989)	33.00
Fukuda K.	Fukuda K.	A 48/2, 171-175 (1989)	72.15N	Isomura S.	Arai S.	B 48/5, 427-435 (1989)	82.50
Fu S.-L.	Hwu J.-G.	A 48/4, 377-383 (1989)	73.00	Itoh T.	Itoh T.	A 48/4, 321-323 (1989)	74.70
Garelli G.	Ioli N.	B 48/4, 299-304 (1989)	42.55	Jain A.L.	Baliga S.	A 48/5, 419-422 (1989)	74.70
Gauyacq D.	Guizard S.	B 48/6, 471-477 (1989)	33.80R	Jardino M.	Meis C.	B 48/1, 67-72 (1989)	32.00
Gely B.	Meis C.	B 48/1, 67-72 (1989)	32.00	Jennings D.A.	Jennings D.A.	B 48/4, 311-313 (1989)	42.65
Genzel L.	Griffin J.A.	A 48/1, 41-47 (1989)	61.70	Jin S.	Jin S.	A 48/4, 385-389 (1989)	68.45
Geoffroy B.	Cunin B.	B 48/1, 41-49 (1989)	02.50	Johansen H.	Johnst K.	B 48/6, 479-484 (1989)	33.80E
Georgiou E.	Pollock C.R.	B 48/4, 287-292 (1989)	42.60L	Johnson D.E.	Johnson D.E.	B 48/4, 339-342 (1989)	42.55K
Gerasimchuk A.	Gerasimchuk A.	B 48/6, 513-516 (1989)	42.55E	Johnson D.E.	Johnson D.E.	B 48/5, 445-448 (1989)	42.60
Ghandehari M.H.	Brass S.G.	A 48/4, 401-404 (1989)	74.70	Johnst K.	Johnst K.	B 48/6, 479-484 (1989)	33.80E
Ghatak K.P.	Ghatak K.P.	A 48/4, 365-371 (1989)	73.20	Jovicic S.	Jovicic S.	A 48/3, 283-287 (1989)	61.80B
Ghezzi C.	Ghezzi C.	A 48/5, 457-463 (1989)	71.55	Jungwirth G.	Peinke J.	A 48/2, 155-160 (1989)	05.45
Giordano G.	Letardi T.	B 48/1, 55-58 (1989)	52.80V	Kadowaki K.	Li J.N.	A 48/2, 193-195 (1989)	74.70
Gislasen H.P.	Gislasen H.P.	A 48/1, 11-24 (1989)	71.55E	Kaetsu H.	Arai S.	B 48/5, 427-435 (1989)	82.50
Gladyszewski G.	Gladyszewski G.	A 48/6, 521-526 (1989)	61.10	Karthikeyan J.	Karthikeyan J.	A 48/5, 489-492 (1989)	74.70
Gnaser H.	Gnaser H.	A 48/3, 261-271 (1989)	79.20N	Karve R.S.	Nayak A.K.	B 48/5, 437-443 (1989)	82.50
Göbel E.O.	Siegner U.	B 48/1, 21-23 (1989)	42.65R	Keating P.	Johnson D.E.	B 48/4, 339-342 (1989)	42.55K
Göbel E.O.	Weller A.	A 48/6, 509-515 (1989)	73.20D	Keller R.	Wichert Th.	A 48/1, 59-85 (1989)	61.70
Godone A.	Bava E.	B 48/6, 495-505 (1989)	32.80	Kellogg G.L.	Kellogg G.L.	A 48/3, 197-201 (1989)	74.70V
Gombia E.	Ghezzi C.	A 48/5, 457-463 (1989)	71.55	Kielczynski P.	Kielczynski P.	B 48/5, 383-388 (1989)	62.30
Gonser U.	Engelmann H.	A 48/3, 211-217 (1989)	64.75	Kielczynski P.	Kielczynski P.	A 48/5, 423-429 (1989)	62.30
Gösele U.	Gösele U.	A 48/3, 219-228 (1989)	61.70	Kikuchi H.	Uehara K.	B 48/2, 125-129 (1989)	42.60H
Griffin J.A.	Griffin J.A.	A 48/1, 41-47 (1989)	61.70	Kim E.K.	Cho H.Y.	A 48/4, 359-363 (1989)	61.70A
Grigoras K.	Dobrovolskis Z.	A 48/3, 245-249 (1989)	72.20	Kim J.K.	Lee T.D.	A 48/5, 475-479 (1989)	79.20D
Groen W.A.	Zandbergen H.W.	A 48/4, 305-314 (1989)	74.70	Klebnicki J.	Hebling J.	B 48/5, 401-403 (1989)	42.55M
Grosse P.	Grosse P.	B 48/1, 59-65 (1989)	07.65G	Kneubühl F.K.	Leuthard W.	B 48/1, 1-20 (1989)	42.55E
Grübel G.	Wichert Th.	A 48/1, 59-85 (1989)	61.70	Kneubühl F.K.	Meier R.	B 48/3, 187-211 (1989)	52.00
Guizard S.	Guizard S.	B 48/6, 471-477 (1989)	33.80R	Kobakhidze A.A.	Ionov I.	B 48/6, 507-511 (1989)	42.80
Güthner P.	Güthner P.	B 48/1, 89-92 (1989)	61.16	Koch R.H.	Verbruggen A.H.	A 48/3, 233-236 (1989)	06.00
Gupta A.	Altkorn R.I.	A 48/3, 273-276 (1989)	07.20	Kohsaka R.	Fukuda K.	A 48/2, 171-175 (1989)	72.15N
Gu S.-J.	Xie Y.-L.	A 48/5, 497-500 (1989)	07.60	Kokharov A.M.	Bakhravov S.A.	B 48/3, 243-244 (1989)	33.00
Hager G.	Highland R.	B 48/4, 357-364 (1989)	42.65	Kolesnikov N.N.	Ursu I.	A 48/5, 451-456 (1989)	61.80
Hager G.D.	Johnson D.E.	B 48/4, 339-342 (1989)	42.55K	Konjevic N.	Jovicic S.	A 48/3, 283-287 (1989)	61.80B
Hamaguchi C.	Yamada K.	A 48/2, 149-153 (1989)	05.40	Konov V.I.	Jovicic S.	A 48/3, 283-287 (1989)	61.80B
Hammer Th.	Hammer Th.	B 48/1, 73-84 (1989)	42.55G	Konov V.I.	Ursu I.	A 48/5, 451-456 (1989)	61.80
Hanko L.	Highland R.	B 48/4, 357-364 (1989)	42.65	Konuma M.	Konuma M.	A 48/5, 465-469 (1989)	81.60
Hartmann W.	Schölch H.P.	A 48/4, 397-400 (1989)	74.70	Korman R.	Corbel C.	A 48/4, 335-341 (1989)	74.70
Hartung J.	Griffin J.A.	A 48/1, 41-47 (1989)	61.70	Kornilov S.	Gerasimchuk A.	B 48/6, 513-516 (1989)	42.55E
Hatta A.	Wittke W.	A 48/3, 289-294 (1989)	42.78D	Kozirev A.B.	Czekaj D.	A 48/6, 573-574 (1989)	79.20
Hayashi Y.	Sakata I.	A 48/4, 295-304 (1989)	61.40	Kozlov D.N.	Kozlov D.N.	B 48/3, 273-283 (1989)	42.65
Hayward J.E.	Hayward J.E.	B 48/1, 25-29 (1989)	42.60K	Krishnamachari S.L.	Nayak A.K.	B 48/5, 437-443 (1989)	82.50
Hebling J.	Hebling J.	B 48/5, 401-403 (1989)	42.55M	Krotkus A.	Dobrovolskis Z.	A 48/3, 245-249 (1989)	72.20
Heeck K.	Verbruggen A.H.	A 48/3, 233-236 (1989)	06.00	Küchler R.	Rauschenbach B.	A 48/4, 347-354 (1989)	61.80
Heisel F.	Cunin B.	B 48/1, 41-49 (1989)	02.50	Kudryatsev Yu.A.	Kudryatsev Yu.A.	B 48/1, 93-96 (1989)	32.80F
Helmcke J.	Morinaga A.	B 48/2, 165-171 (1989)	32.00	Kuhl J.	Konuma M.	A 48/5, 465-469 (1989)	81.60
Helmcke J.	Brand U.	B 48/4, 343-350 (1989)	42.50	Kulakov M.P.	Ursu I.	A 48/5, 451-456 (1989)	61.80
Hertel I.V.	Campbell E.E.B.	A 48/6, 543-547 (1989)	79.20D	Kulevskii L.A.	Vodopyanov K.L.	B 48/6, 485-488 (1989)	32.80K
Heszler P.	Hebling J.	B 48/5, 401-403 (1989)	42.55M	Kürner W.	Irion E.	A 48/1, 25-30 (1989)	71.55H
Highland R.	Highland R.	B 48/4, 357-364 (1989)	42.65	Kurup M.B.	Karthikeyan J.	A 48/5, 489-492 (1989)	74.70
Highland R.G.	Johnson D.E.	B 48/5, 445-448 (1989)	42.60	Labib H.H.A.	Abdelmohsen N.	A 48/3, 251-253 (1989)	72.20
Hofer W.O.	Gnaser H.	A 48/3, 261-271 (1989)	79.20N	Lakshmikummar S.T.	Lakshmikummar S.T.	A 48/4, 325-329 (1989)	74.40Y
Hofmann D.	Hofmann D.	A 48/4, 315-319 (1989)	72.80E	Lange W.	Mitschke F.	B 48/6, 467-470 (1989)	42.65P
Hollmann E.K.	Czekaj D.	A 48/6, 573-574 (1989)	79.20	Lange W.	Ankerhold G.	B 48/2, 101-104 (1989)	42.65P
Hölzlein K.	Pensl G.	A 48/1, 49-57 (1989)	71.55F	Langhals H.	Löhmansröben H.G.	B 48/6, 449-452 (1989)	42.55M
Horani M.	Guizard S.	B 48/6, 471-477 (1989)	33.80R	Lawandy N.M.	Ryan J.C.	B 48/2, 173-182 (1989)	42.55H
Horváth Z.Gy.	Vodopyanov K.L.	B 48/6, 485-488 (1989)	32.80K	Lazzaro P. Di	Letardi T.	B 48/1, 55-58 (1989)	52.80V
Huang Y.K.	Li J.N.	A 48/2, 193-195 (1989)	74.70	Lee H.W.	Lee T.D.	A 48/5, 475-479 (1989)	79.20D
Huebener R.P.	Huebener R.P.	A 48/2, 107-110 (1989)	05.45	Lee S.T.	Gösele U.	A 48/3, 219-228 (1989)	61.70
Huebener R.P.	Peinke J.	A 48/2, 155-160 (1989)	05.45	Lee T.D.	Lee T.D.	A 48/5, 475-479 (1989)	79.20D
Huguenin D.	Huguenin D.	A 48/6, 583-585 (1989)	61.70	Leggieri G.	D'Anna E.	A 48/6, 503-507 (1989)	68.55
Humphreys Jr. R.H.	Johnson D.E.	B 48/4, 339-342 (1989)	42.55K	Lengfellner H.	Lengfellner H.	A 48/5, 501-502 (1989)	73.60K
Hutchinson M.H.R.	Osborne M.R.	B 48/4, 351-356 (1989)	42.55G	Lépine T.	Cunin B.	B 48/1, 41-49 (1989)	02.50
Hutchinson J.L.	Pensl G.	A 48/1, 49-57 (1989)	71.55F	Letardi T.	Letardi T.	B 48/1, 55-58 (1989)	52.80V
Hwu J.-G.	Hwu J.-G.	A 48/4, 377-383 (1989)	73.00	Letokhov V.S.	Kudryatsev Yu.A.	B 48/1, 93-96 (1989)	32.80F
Iacopini E.	Carusotto S.	B 48/3, 231-234 (1989)	42.70	Letokhov V.S.	Balykin V.I.	B 48/6, 517-523 (1989)	42.65K
Inaba H.	Scott R.Q.	B 48/2, 183-185 (1989)	87.10	Leuthard W.	Leuthard W.	B 48/1, 1-20 (1989)	42.55E
Ioli N.	Ioli N.	B 48/4, 299-304 (1989)	42.55	Li F.M.	Sun D.C.	A 48/6, 567-571 (1989)	52.80
Ioli N.	Ioli N.	B 48/4, 305-309 (1989)	42.55	Li H.	Xie Y.-L.	A 48/5, 497-500 (1989)	07.60
Ionov S.I.	Ionov I.	B 48/6, 507-511 (1989)	42.80	Li J.N.	Li J.N.	A 48/2, 193-195 (1989)	74.70
Irion E.	Irion E.	A 48/1, 25-30 (1989)	71.55H	Lin S.-C.	Ishihara T.	B 48/4, 315-326 (1989)	34.80
Ishihara T.	Ishihara T.	B 48/4, 315-326 (1989)	34.80	Liu J.-T.	Wang K.-M.	A 48/3, 241-244 (1989)	29.70G
Ishikawa J.	Morinaga A.	B 48/2, 165-171 (1989)	32.00	Liu X.-J.	Wang K.-M.	A 48/3, 241-244 (1989)	29.70G

Name	First Name	Applied Physics	PACS	Name	First Name	Applied Physics	PACS
Lo D.	Lo D.	B 48/5, 405-410 (1989)	42.55G	Pajewski W.	Kielczynski P.	B 48/5, 383-388 (1989)	62.30
Löhmansröben H.G.	Löhmansröben H.G.	B 48/6, 449-452 (1989)	42.55M	Pajewski W.	Kielczynski P.	A 48/5, 423-429 (1989)	62.30
Loloe M.R.	Song X.N.	A 48/2, 137-141 (1989)	72.20H	Pal B.B.	Chakrabarti P.	A 48/4, 331-334 (1989)	72.70
Lörincz A.	Miklos A.	B 48/3, 213-218 (1989)	07.65	Pan C.-L.	Lu M.-H.	B 48/5, 365-369 (1989)	34.90
Lörincz A.	Miklos A.	B 48/3, 261-267 (1989)	65.00	Pang D.	Pang D.	A 48/4, 355-357 (1989)	74.70V
Lörincz A.	Doka O.	A 48/5, 415-417 (1989)	73.00	Parisi J.	Huebener R.P.	A 48/2, 107-110 (1989)	05.45
Luby S.	D'Anna E.	A 48/6, 503-507 (1989)	68.55	Parisi J.	Peinke J.	A 48/2, 155-160 (1989)	05.45
Luches A.	D'Anna E.	A 48/6, 503-507 (1989)	68.55	Park C.O.	Lee T.D.	A 48/5, 475-479 (1989)	79.20D
Lu M.-H.	Lu M.-H.	B 48/5, 365-369 (1989)	34.90	Parthasarathy V.	Nayak A.K.	B 48/5, 437-443 (1989)	82.50
				Pascard H.	Corbel C.	A 48/4, 335-341 (1989)	74.70
Ma E.	Brunner A.J.	A 48/3, 229-232 (1989)	61.70N	Patil D.S.	Karthikeyan J.	A 48/5, 489-492 (1989)	74.70
Manohar K.G.	Manohar K.G.	B 48/6, 525-530 (1989)	31.60	Pati S.P.	Banerjee J.P.	A 48/5, 437-443 (1989)	85.30
Ma P.	Arai S.	B 48/5, 427-435 (1989)	82.50	Peinke J.	Huebener R.P.	A 48/2, 107-110 (1989)	05.45
Marlton B.P.R.	Gösele U.	A 48/3, 219-228 (1989)	61.70	Peinke J.	Peinke J.	A 48/2, 155-160 (1989)	05.45
Marshall D.B.	Marshall D.B.	A 48/1, 87-91 (1989)	74.60G	Pensl G.	Pensl G.	A 48/1, 49-57 (1989)	71.55F
Martinez-Pastor J.	Segura A.	A 48/5, 445-450 (1989)	72.10	Pensl G.	Irion E.	A 48/1, 25-30 (1989)	71.55H
Martinez-Tomás C.	Segura A.	A 48/5, 445-450 (1989)	72.10	Penzkofer A.	Qiu P.	B 48/2, 115-124 (1989)	42.55M
Marucco J.F.	Corbel C.	A 48/4, 335-341 (1989)	74.70	Pereira D.	Facin J.A.	B 48/3, 245-248 (1989)	42.55
Mauer D.	Brüggemann R.	B 48/2, 105-110 (1989)	42.60	Pereira D.	Ioli N.	B 48/4, 299-304 (1989)	42.55
Mayer K.M.	Peinke J.	A 48/2, 155-160 (1989)	05.45	Pérez Méndez M.	Pérez Méndez M.	A 48/5, 471-473 (1989)	78.50G
Mbosei L.	Mbungu-Tsumbu N.	A 48/4, 343-346 (1989)	78.70	Peter G.	Weller A.	A 48/6, 509-515 (1989)	73.20D
Mbungu-Tsumbu N.	Mbungu-Tsumbu N.	A 48/4, 343-346 (1989)	78.70	Petri M.	Brüggemann R.	B 48/2, 105-110 (1989)	42.60
Meier R.	Meier R.	B 48/3, 187-211 (1989)	52.00	Petrinin V.V.	Kudryavtsev Yu.A.	B 48/1, 93-96 (1989)	32.80F
Meis C.	Meis C.	B 48/1, 67-72 (1989)	32.00	Piglmayer K.	Piglmayer K.	B 48/6, 453-462 (1989)	82.50
Menken M.J.V.	Li J.N.	A 48/2, 193-195 (1989)	74.70	Pillan M.	Ghezzi C.	A 48/5, 457-463 (1989)	71.55
Menovsky A.A.	Li J.N.	A 48/2, 193-195 (1989)	74.70	Pimenov S.M.	Jovicevic S.	A 48/3, 283-287 (1989)	61.80B
Mensing F.	Brand U.	B 48/4, 343-350 (1989)	42.50	Pinto J.F.	Pollock C.R.	B 48/4, 287-292 (1989)	42.60L
Mesli A.	Zundel T.	A 48/1, 31-40 (1989)	66.30	Plumelle F.	Yu J.	B 48/1, 51-55 (1989)	41.70
Miehé J.A.	Cunin B.	B 48/1, 41-49 (1989)	02.50	Poggi A.	Adegboyega G.A.	A 48/4, 391-395 (1989)	73.30
Mihaleuc L.N.	Ursu I.	A 48/5, 451-456 (1989)	61.80	Poggi A.	Castaldini A.	A 48/5, 431-436 (1989)	72.20J
Miklos A.	Miklos A.	B 48/3, 213-218 (1989)	07.65	Polacco E.	Carusotto S.	B 48/3, 231-234 (1989)	42.70
Miklos A.	Miklos A.	B 48/3, 261-267 (1989)	65.00	Pollock C.R.	Pollock C.R.	B 48/4, 287-292 (1989)	42.60L
Miklos A.	Doka O.	A 48/5, 415-417 (1989)	73.00	Posselt M.	Rauschenbach B.	A 48/4, 347-354 (1989)	61.80
Mikolajczak P.	Gladyszewski G.	A 48/6, 521-526 (1989)	61.10	Pozela J.	Pozela J.	A 48/2, 181-188 (1989)	72.20
Min S.-K.	Cho H.Y.	A 48/4, 359-363 (1989)	61.70A	Pretti W.	Spangler J.	A 48/2, 143-147 (1989)	05.40
Miranda L.C.M.	Bento C.	B 48/3, 269-272 (1989)	78.90	Pretti W.	Peinke J.	A 48/2, 155-160 (1989)	05.45
Mitschke F.	Mitschke F.	B 48/6, 467-470 (1989)	42.65P	Protsenko E.	Gerasimchuk A.	B 48/6, 513-516 (1989)	42.55E
Mitschke F.	Ankerhold G.	B 48/2, 101-104 (1989)	42.65P				
Mittal J.P.	Nayak A.K.	B 48/5, 437-443 (1989)	82.50	Qiu P.	Qiu P.	B 48/2, 115-124 (1989)	42.55M
Miura N.	Yamada K.	A 48/2, 149-153 (1989)	05.40	Qu Yan.	Chen Zhihao.	B 48/3, 225-229 (1989)	42.80
Mlynek J.	Ankerhold G.	B 48/2, 101-104 (1989)	42.65P	Quan M.X.	Pang D.	A 48/4, 355-357 (1989)	74.70V
Molnár B.	Engelmann H.	A 48/3, 211-217 (1989)	64.75	Quapp W.	Quapp W.	B 48/3, 257-260 (1989)	82.20R
Mondal M.	Ghatak K.P.	A 48/4, 365-371 (1989)	73.20	Quel E.J.	Alonso E.M.	B 48/3, 249-252 (1989)	33.00
Moretti A.	Ioli N.	B 48/4, 299-304 (1989)	42.55				
Moretti A.	Ioli N.	B 48/4, 305-309 (1989)	42.55	Rác B.	Hebling J.	B 48/5, 401-403 (1989)	42.55M
Morgan P.E.D.	Marshall D.B.	A 48/1, 87-91 (1989)	74.60G	Raga H.F.	Akkad F.El	A 48/5, 493-495 (1989)	73.60F
Morinaga A.	Morinaga A.	B 48/2, 165-171 (1989)	32.00	Rakowsky S.	Rakowsky S.	B 48/6, 463-466 (1989)	33.20K
Mosca R.	Ghezzi C.	A 48/5, 457-463 (1989)	71.55	Rama Rao K.V.S.	Nayak A.K.	B 48/5, 437-443 (1989)	82.50
Moser P.	Huguenin D.	A 48/6, 583-585 (1989)	61.70	Rao P.R.K.	Manohar K.G.	B 48/6, 525-530 (1989)	31.60
Motoko K.	Mbungu-Tsumbu N.	A 48/4, 343-346 (1989)	78.70	Rastogi A.C.	Lakshmikummar S.T.	A 48/4, 325-329 (1989)	74.40Y
Mouahid F.	Engelmann H.	A 48/3, 211-217 (1989)	64.75	Ratto J.J.	Marshall D.B.	A 48/1, 87-91 (1989)	74.60G
Mugibayashi N.	Aoki K.	A 48/2, 161-169 (1989)	72.20H	Rauschenbach B.	Rauschenbach B.	A 48/4, 347-354 (1989)	61.80
Müller J.C.	Hofmann D.	A 48/4, 315-319 (1989)	72.80E	Rau U.	Peinke J.	A 48/2, 155-160 (1989)	05.45
Muller J.C.	Zundel T.	A 48/1, 31-40 (1989)	66.30	Redel T.	Schölch H.P.	A 48/4, 397-400 (1989)	74.70
Mutin P.	Mutin P.	B 48/5, 411-416 (1989)	33.20F	Reid J.	Hayward J.E.	B 48/1, 25-29 (1989)	42.60K
				Reinert D.	Solka H.	B 48/3, 235-242 (1989)	35.80
Namajunas A.	Pozela J.	A 48/2, 181-188 (1989)	72.20	Reinert D.	Brüggemann R.	B 48/2, 105-110 (1989)	42.60
Navarro H.	Griffin J.A.	A 48/1, 41-47 (1989)	61.70	Ren C.X.	Chen J.M.	A 48/3, 277-281 (1989)	74.70
Nayak A.K.	Nayak A.K.	B 48/5, 437-443 (1989)	82.50	Renk K.F.	Lengfelner H.	A 48/5, 501-502 (1989)	73.60K
Nicolet M.-A.	Brunner A.J.	A 48/3, 229-232 (1989)	61.70N	Reuter R.	Reuter R.	B 48/3, 219-224 (1989)	42.80
Nistor L.C.	Ursu I.	A 48/5, 451-456 (1989)	61.80	Ribnikar S.V.	Trtica M.S.	B 48/5, 379-382 (1989)	42.55D
Nistor S.V.	Ursu I.	A 48/5, 451-456 (1989)	61.80	Riehle F.	Morinaga A.	B 48/2, 165-171 (1989)	32.00
Noll G.	Siegner U.	B 48/1, 21-23 (1989)	42.65R	Ringhofer K.H.	Ringhofer K.H.	B 48/5, 395-400 (1989)	42.50
Nomura K.	Fukuda K.	A 48/2, 171-175 (1989)	72.15N	Ristau D.	Ankerhold G.	B 48/2, 101-104 (1989)	42.65P
Novero C.	Bava E.	B 48/6, 495-505 (1989)	32.80	Ritonga J.	Ritonga J.	B 48/5, 371-377 (1989)	07.60
				Rohatgi V.K.	Karthikeyan J.	A 48/5, 489-492 (1989)	74.70
Oelhafen P.	Ugolini D.	A 48/6, 549-558 (1989)	79.60	Röhrich B.	Peinke J.	A 48/2, 155-160 (1989)	05.45
Oelhafen P.	Wittmer M.	A 48/6, 559-566 (1989)	73.40	Roy S.K.	Banerjee J.P.	A 48/5, 437-443 (1989)	85.30
Ogawa T.	Ogawa T.	B 48/4, 327-338 (1989)	42.50	Rückle B.	Czarnetki U.	B 48/1, 37-40 (1989)	33.80K
Ohyama T.	Fujii K.	A 48/2, 189-191 (1989)	72.20H	Rullier-Albenque F.	Corbel C.	A 48/4, 335-341 (1989)	74.70
Oka K.	Oka K.	B 48/1, 85-88 (1989)	42.80	Ryan J.C.	Ryan J.C.	B 48/2, 173-182 (1989)	42.55H
Okazaki S.	Sakata I.	A 48/4, 295-304 (1989)	61.40				
Oldershaw G.A.	Dyer P.E.	B 48/6, 489-493 (1989)	82.50	Saemann-Ischenko G.	Schölch H.P.	A 48/4, 397-400 (1989)	74.70
Osborne M.R.	Osborne M.R.	B 48/4, 351-356 (1989)	42.55G	Sakata I.	Sakata I.	A 48/4, 295-304 (1989)	61.40
Otsuka E.	Fujii K.	A 48/2, 189-191 (1989)	72.20H	Sambongi T.	Fukuda K.	A 48/2, 171-175 (1989)	72.15N
Otto A.	Wittke W.	A 48/3, 289-294 (1989)	42.78D	Sarkar S.K.	Nayak A.K.	B 48/5, 437-443 (1989)	82.50

Name	First Name	Applied Physics	PACS	Name	First Name	Applied Physics	PACS
Sarukura N.	Watanabe M.	B 48/5, 417-420 (1989)	42.55H	Uchikawa H.	Itoh T.	A 48/4, 321-323 (1989)	74.70
Sato H.	Oka K.	B 48/1, 85-88 (1989)	42.80	Uehara K.	Uehara K.	B 48/2, 125-129 (1989)	42.60H
Sauer R.	Iron E.	A 48/1, 25-30 (1989)	71.55H	Ugolini D.	Ugolini D.	A 48/6, 549-558 (1989)	79.60
Scalabrini A.	Facin J.A.	B 48/3, 245-248 (1989)	42.55	Ugolini D.	Wittmer M.	A 48/6, 559-566 (1989)	73.40
Schölch H.P.	Schölch H.P.	A 48/4, 397-400 (1989)	74.70	Ulbikas J.	Pozela J.	A 48/2, 181-188 (1989)	72.20
Schöll E.	Schöll E.	A 48/2, 95-106 (1989)	72.20H	Ulmer G.	Campbell E.E.B.	A 48/6, 543-547 (1989)	79.20D
Schötzau H.J.	Leuthard W.	B 48/1, 1-20 (1989)	42.55E	Urban W.	Brüggemann R.	B 48/2, 105-110 (1989)	42.60
Schötzau H.J.	Meier R.	B 48/3, 187-211 (1989)	52.00	Urban W.	Solka H.	B 48/3, 235-242 (1989)	35.80
Schroeder W.A.	Osborne M.R.	B 48/4, 351-356 (1989)	42.55G	Ursu I.	Ursu I.	A 48/5, 451-456 (1989)	61.80
Schulz M.	Pensl G.	A 48/1, 49-57 (1989)	71.55F	Usa M.	Scott R.Q.	B 48/2, 183-185 (1989)	87.10
Schulz M.	Cabanski W.	A 48/3, 203-210 (1989)	71.20	Ushizaka T.	Ritonga J.	B 48/5, 371-377 (1989)	07.60
Schulz N.	Wichert Th.	A 48/1, 59-85 (1989)	61.70				
Scott R.Q.	Scott R.Q.	B 48/2, 183-185 (1989)	87.10	Vargas H.	Bento A.C.	B 48/3, 269-272 (1989)	78.90
Scuri F.	Carusotto S.	B 48/3, 231-234 (1989)	42.70	Vasconcellos E.C.C.	Facin J.A.	B 48/3, 245-248 (1989)	42.55
Segura A.	Segura A.	A 48/5, 445-450 (1989)	72.10	Venkatramani N.	Karthikeyan J.	A 48/5, 489-492 (1989)	74.70
Seiler D.G.	Song X.N.	A 48/2, 137-141 (1989)	72.20H	Venkitachalam T.V.	Nayak A.K.	B 48/5, 437-443 (1989)	82.50
Servidori M.	Solmi S.	A 48/3, 255-260 (1989)	61.70	Verbruggen A.H.	Verbruggen A.H.	A 48/3, 233-236 (1989)	06.00
Shi B.-R.	Wang K.-M.	A 48/3, 241-244 (1989)	29.70G	Vodopyanov K.L.	Vodopyanov K.L.	B 48/6, 485-488 (1989)	32.80K
Shub V.E.	Ursu I.	A 48/5, 451-456 (1989)	61.80	Volkov S.Yu.	Kozlov D.N.	B 48/3, 273-283 (1989)	42.65
Sidhu J.	Dyer P.E.	B 48/6, 489-493 (1989)	82.50	Volpias V.A.	Czekaj D.	A 48/6, 573-574 (1989)	79.20
Siebert D.	Engelmann H.	A 48/3, 211-217 (1989)	64.75				
Siegner U.	Siegner U.	B 48/1, 21-23 (1989)	42.65R	Wang H.	Sun D.C.	A 48/6, 567-571 (1989)	52.80
Siffert P.	Zundel T.	A 48/1, 31-40 (1989)	66.30	Wang H.S.	Yih T.S.	B 48/5, 421-426 (1989)	42.60
Silva M. da	Bento A.C.	B 48/3, 269-272 (1989)	78.90	Wang K.-M.	Wang K.-M.	A 48/3, 241-244 (1989)	29.70G
Simon P.	Simon P.	B 48/3, 253-256 (1989)	42.60	Wang Y.-H.	Wang K.-M.	A 48/3, 241-244 (1989)	29.70G
Simon P.	Kudryavtsev Yu.A.	B 48/1, 93-96 (1989)	32.80F	Watanabe M.	Watanabe M.	B 48/5, 417-420 (1989)	42.55H
Skudlik H.	Wichert Th.	A 48/1, 59-85 (1989)	61.70	Watanabe M.	Watanabe M.	B 48/5, 417-420 (1989)	42.55H
Smirnov V.V.	Kozlov D.N.	B 48/3, 273-283 (1989)	42.65	Weber J.	Griffin J.A.	A 48/1, 41-47 (1989)	61.70
Solka H.	Solka H.	B 48/3, 235-242 (1989)	35.80	Weidner F.	Stamm U.	B 48/2, 149-153 (1989)	42.55M
Solmi S.	Solmi S.	A 48/3, 255-260 (1989)	61.70	Weller A.	Weller A.	A 48/6, 509-515 (1989)	73.20D
Solymar L.	Ringhofer K.H.	B 48/5, 395-400 (1989)	42.50	Wichert Th.	Wichert Th.	A 48/1, 59-85 (1989)	61.70
Song X.N.	Song X.N.	A 48/2, 137-141 (1989)	72.20H	Witte W.	Witte W.	A 48/3, 289-294 (1989)	42.78D
Spangler J.	Spangler J.	A 48/2, 143-147 (1989)	05.40	Wittmer M.	Ugolini D.	A 48/6, 549-558 (1989)	79.60
Sreekumar K.P.	Karthikeyan J.	A 48/5, 489-492 (1989)	74.70	Wittmer M.	Wittmer M.	A 48/6, 559-566 (1989)	73.40
Stafast H.	Dietrich T.R.	A 48/5, 405-414 (1989)	81.15G	Wu H.H.	Yih T.S.	B 48/5, 421-426 (1989)	42.60
Stahn A.	Solka H.	B 48/3, 235-242 (1989)	35.80	Wynands R.	Grosse P.	B 48/1, 59-65 (1989)	07.65G
Stamm U.	Stamm U.	B 48/2, 149-153 (1989)	42.55M				
Starodunov Y.M.	Ursu I.	A 48/5, 451-456 (1989)	61.80	Xie L.M.	Chen J.M.	A 48/3, 277-281 (1989)	74.70
Stefanini G.	Carusotto S.	B 48/3, 231-234 (1989)	42.70	Xie Y.-L.	Xie Y.-L.	A 48/5, 497-500 (1989)	07.60
Stettner M.	Schölch H.P.	A 48/4, 397-400 (1989)	74.70				
Stoll H.	Verbruggen A.H.	A 48/3, 233-236 (1989)	06.00	Yamada K.	Yamada K.	A 48/2, 149-153 (1989)	05.40
Streckfuß N.	Hofmann D.	A 48/4, 315-319 (1989)	72.80E	Yamamoto K.	Aoki K.	A 48/2, 111-125 (1989)	72.20H
Strumia F.	Ioli N.	B 48/4, 299-304 (1989)	42.55	Yamanaka M.	Sakata I.	A 48/4, 295-304 (1989)	61.40
Stuke M.	Ioli N.	B 48/4, 305-309 (1989)	42.55	Yang G.-Z.	Xie Y.-L.	A 48/5, 497-500 (1989)	07.60
Stützel H.	Zhang Y.	B 48/1, 97-100 (1989)	81.15H	Yang J.	Chen J.M.	A 48/3, 277-281 (1989)	74.70
Sugita K.	Konuma M.	A 48/5, 465-469 (1989)	81.60	Yang Z.	Pang D.	A 48/4, 355-357 (1989)	74.70V
Suhr H.	Arai S.	B 48/5, 427-435 (1989)	82.50	Yao Huihai	Chen Zhihao	B 48/3, 225-229 (1989)	42.80
Sun D.C.	Etspüler A.	A 48/4, 373-375 (1989)	81.15G	Yih T.S.	Yih T.S.	B 48/5, 421-426 (1989)	42.60
Suri B.M.	Sun D.C.	A 48/6, 567-571 (1989)	52.80	Yu J.	Yu J.	B 48/1, 51-55 (1989)	41.70
Susi E.	Manohar K.G.	B 48/6, 525-530 (1989)	31.60	Yu Z.Q.	Sun D.C.	A 48/6, 567-571 (1989)	52.80
Susi E.	Adegboyega G.A.	A 48/4, 391-395 (1989)	73.30				
Susi E.	Castaldini A.	A 48/5, 431-436 (1989)	72.20J	Zaim Cil C.	Aktulga E.	A 48/6, 517-520 (1989)	72.40
Taira Y.	Taira Y.	B 48/5, 389-394 (1989)	07.65	Zandbergen H.W.	Zandbergen H.W.	A 48/4, 305-314 (1989)	74.70
Takuma H.	Taira Y.	B 48/5, 389-394 (1989)	07.65	Zavattini E.	Carusotto S.	B 48/3, 231-234 (1989)	42.70
Talukdar R.	Manohar K.G.	B 48/6, 525-530 (1989)	31.60	Zaytsev A.G.	Czekaj D.	A 48/6, 573-574 (1989)	79.20
Tamasevicius A.	Pozela J.	A 48/2, 181-188 (1989)	72.20	Zemek J.	D'Anna E.	A 48/6, 503-507 (1989)	68.55
Tan T.Y.	Gösele U.	A 48/3, 219-228 (1989)	61.70	Zhang Y.	Zhang Y.	B 48/1, 97-100 (1989)	81.15H
Teitworth S.W.	Teitworth S.W.	A 48/2, 127-136 (1989)	05.45	Zheng C.E.	Letardi T.	B 48/1, 55-58 (1989)	52.80V
Teixeira S.R.	Teixeira S.R.	A 48/5, 481-488 (1989)	68.55N	Zheng Y.	Chen J.M.	A 48/3, 277-281 (1989)	74.70
Tendeloo G.van.	Zandbergen H.W.	A 48/4, 305-314 (1989)	74.70	Zhou Y.-L.	Xie Y.-L.	A 48/5, 497-500 (1989)	07.60
Teodorescu V.S.	Ursu I.	A 48/5, 451-456 (1989)	61.80	Zielke D.M.	Auyeung R.C.Y.	B 48/4, 293-297 (1989)	42.65C
Thomas P.	Weller A.	A 48/6, 509-515 (1989)	73.20D	Zimmermann D.	Rakowsky S.	B 48/6, 463-466 (1989)	33.20K
Thonke K.	Iron E.	A 48/1, 25-30 (1989)	71.55H	Zimmermann W.	Solka H.	B 48/3, 235-242 (1989)	35.80
Tikhonenko V.V.	Bakhranov S.A.	B 48/3, 243-244 (1989)	33.00	Zou S.C.	Chen J.M.	A 48/3, 277-281 (1989)	74.70
Toth Cs.	Vodopyanov K.L.	B 48/6, 485-488 (1989)	32.80K	Zulehner W.	Iron E.	A 48/1, 25-30 (1989)	71.55H
Trtica M.S.	Engelmann H.	B 48/5, 379-382 (1989)	42.55D	Zundel T.	Zundel T.	A 48/1, 31-40 (1989)	66.30
Tuczek F.	Gerasimchuk A.	A 48/3, 211-217 (1989)	64.75	Zysset B.	Zysset B.	B 48/2, 139-147 (1989)	87.60
Tymper S.		B 48/6, 513-516 (1989)	42.55E				